



Experiment -1.5

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Semester: 4TH Date of Performance: 20/02/2024

Subject Name: GIT AND GITHUB Subject Code: 22CSH-293

1. Aim/Overview of the practical: .: To merge pull request and update local repository on

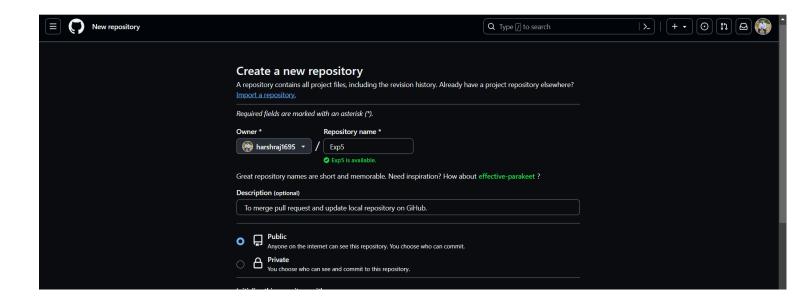
GiHub.

2. Software used: Git Bash and Github.

3. Hardware Used: Computer system.

4. Steps for experiment:

- 1. Create a file on local device and open that folder with Git Bash.
- 2. Create a repository on Github with exp5 name and copy the http link.









- **3.** Make clone of the repository using "git clone http link"
- **4.** Change the current working directory using "cd" command: "cd exp5"

```
singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash
$ git clone https://github.com/harshraj1695/Exp5.git
Cloning into 'Exp5'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), 12.79 KiB | 297.00 KiB/s, done.
singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash
$ cd Exp5
singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash/Exp5 (main)
$ |
```

5. Create and edit a file using "vi filename" command: "vi ab.c"

```
MINGW64:/d/CU/GIT/gitbash/Exp5
#include<stdio.h>
int main(){
    printf("arsh raj singh");
    return 0;
}
```

- 6. Add the file using "git add " command
- 7. Commit the file using "git commit -m"message"" command.







```
singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash/Exp5 (main)
$ git add .
warning: in the working copy of 'new.c', LF will be replaced by CRLF the next time Git touches it
singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash/Exp5 (main)
$ git commit -m "commiting in the main branch"
[main 45e556d] commiting in the main branch
1 file changed, 6 insertions(+)
create mode 100644 new.c

singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash/Exp5 (main)
$ |
```

- **8.** Now Create a branch and move into the branch using "git checkout -b branch_name"
- **9.** Do the changes in the file "new.c"

```
singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash/Exp5 (main)
$ git checkout -b nope
Switched to a new branch 'nope'

singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash/Exp5 (nope)
$ vi new.c

singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash/Exp5 (nope)
$
```

10. Now add and commit the changes of the file.

```
singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash/Exp5 (nope)
$ git commit -am"direct commiting the file without adding in staging area"
warning: in the working copy of 'new.c', LF will be replaced by CRLF the next time Git touches it
[nope 759cad3] direct commiting the file without adding in staging area
1 file changed, 2 insertions(+), 1 deletion(-)
singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash/Exp5 (nope)
$ |
```







11. Now Shift to the main branch using "git checkout main".

```
singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash/Exp5 (nope)

$ git checkout main

Switched to branch 'main'

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)
```

12. Now shoe the difference between two branches by "dit diff branch1..branch2"

- 12. Now merge the two branch using "git merge branch_name".
- **13.** After successfully merging the two branch delete the branch using "git branch -d branch_name".

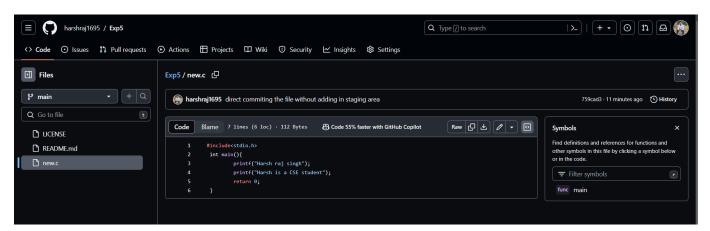




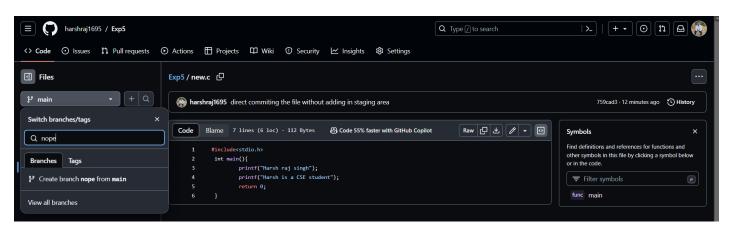


14. Now push the changes in the remote repository using "git push origin main".

15. Go to the remote repository and verify the changes.



15. Now create a branch at Github and edit the file.

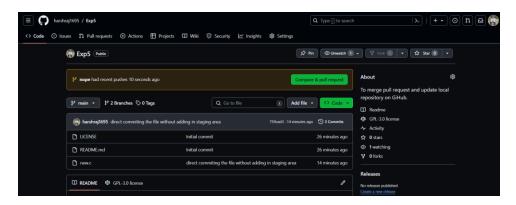




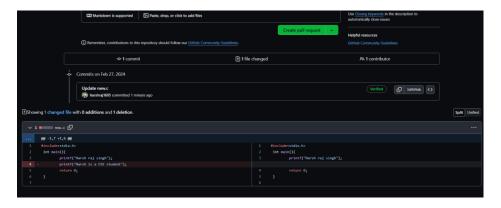




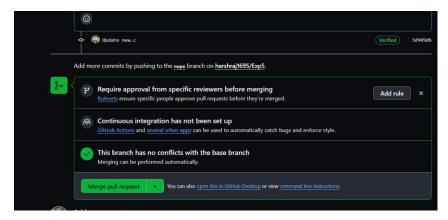
15. Click on "Compare pull request" to create the pull request.



15. Veify the changes and click on "Create pull request".



15. Click on "merge pull request".

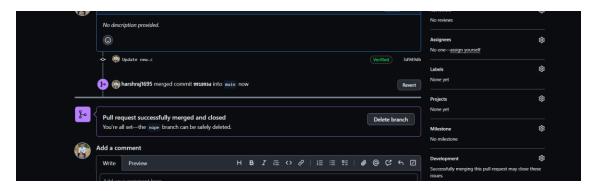








15. After merging click on "delete branch" to delete the branch.



15. After deleting the branch got to bash and pull the changes by clicking the "git pull origin main".

```
singh@HARSH1695 MINGW64 /d/CU/GIT/gitbash/Exp5 (main)
$ git pull origin main
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), 1.83 KiB | 234.00 KiB/s, done.
From https://github.com/harshraj1695/Exp5
* branch main -> FETCH_HEAD
    759cad3..991893d main -> origin/main
Updating 759cad3..991893d
Fast-forward
new.c | 1 -
    1 file changed, 1 deletion(-)
```

5. Result/Output/Writing Summary:

In this experiment we have learn about Creating a branch on both local and remote repository and merging the branches bioth on local and remote repository.







Learning outcomes (What I have learnt):

- 1. Learnt the difference between git merge and pull request.
- 2. Learnt how to make the merge request on github and git bash.
- **3.** Learnt about editing the files.
- **4.** Learnt how to delete a branch in github and bash.
- **5.** Also learnt about comparing the merged files.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
|---------|------------|----------------|---------------|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| | | | |
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